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Amendments to the Claims:

Please cancel Claim 1 without prejudice.

Please amend Claims 3-7 as follows.

WHAT IS CLAIMED IS:

- 1 1. (Cancelled)
- 1 2. (Canceled)
- 1 3. (Currently amended) A combine harvester, including a threshing, cleaning and separation system, having:
 - 3 wheels for propelling the combine harvester over the ground;
 - 4 an engine driving the wheels via a hydrostatic drive system of a transmission, wherein the
 - 5 transmission includes a gear select lever for changing a gear ratio of the transmission;
 - 6 a speed modification switch having a first state and a second state, wherein movement of
 - 7 the gear select lever from a first position to a second position switches the speed modification
 - 8 switch from the first state to the second state and changes the gear ratio;
 - 9 a manually operable throttle control switch having a plurality of positions, each position
 - 10 corresponding to a desired engine speed level; and
 - 11 an engine control circuit for controlling the speed of the engine, the engine control circuit
 - 12 being responsive to input from the throttle control switch and the speed modification switch for
 - 13 selectively controlling the engine to run at a first speed for a given position of the throttle control
 - 14 switch when the speed modification switch is in the first state, the first speed being selectable

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15 from a range of engine speeds that provide fuel economy and prevent power overload of the
16 threshing, cleaning and separation systems during crop harvesting; the threshing, cleaning and
17 separation systems obtaining their power from the engine, the engine control circuit being further
18 responsive to input from the throttle control switch and the speed modification switch for
19 controlling the engine to run at a second speed higher than the first speed when the throttle
20 control switch is in the given position and the speed modification switch is in the second state,
21 the engine control circuit providing additional power to permit higher engine speeds for
22 propelling the combine harvester at the second speed higher than the first speed when the
23 threshing, cleaning and separation systems are not operating, the additional power normally
24 being used to power the threshing, cleaning and separation systems during crop harvesting, the
25 engine control circuit comprising a programmable microprocessor connected to receive input
26 from the throttle control switch and the speed modification switch. A combine harvester as
27 claimed in claim 1, wherein said the programmable microprocessor comprises comprising:
28 means for storing a first table holding work speed values, one work speed value
29 corresponding to each position of said the throttle control, and a second table holding at
30 least one road speed value greater than any of said the work speed values;
31 means for accessing a work speed value from said the first table when said the
32 speed modification switch is in said the first state and accessing a road speed value from
33 said the second table when said the speed modification switch is in said the second state;
34 and,

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35 means responsive to an accessed work speed value or road speed value for
36 producing an output signal to control said the engine to run at the speed represented by
37 said the accessed work speed value or accessed road speed value.

1 4. (Currently Amended) A combine harvester as claimed in claim 3 wherein said the table
2 of road speed values includes a road speed value corresponding to each position of said the
3 throttle control, the road speed value corresponding to a given position of said the throttle control
4 being greater than the work speed value corresponding to said the given position of said the
5 throttle control whereby, for each position of said the throttle control, said the engine may be
6 selectively controlled to run at a first speed or a second speed higher than said the first speed,
7 depending on the state of said the speed modification switch.

1 5. (Currently Amended) A combine harvester as claimed in claim 3 wherein said the output
2 signal controls the rate of fuel flow to said engine.

1 6. (Currently Amended) A combine harvester as claimed in claim 3, wherein the threshing,
2 cleaning and separation system is powered by said the engine, and said the work speed values are
3 chosen so the output power of said the engine does not overload other harvester components to
4 include the threshing, cleaning and separation system.

1 7. (Currently Amended) A combine harvester as claimed in claim 3, wherein said the work
2 speed values correspond to engine speed values when the combine harvester is operated to
3 harvest a field, and said the road speed values correspond to engine speed values when the
4 combine harvester is operated to travel on a roadway.